New tool provides clearer pictures of flexible risers

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The «street view» equivalent of a flexible riser

- Inspection tool - FlexCam.mp4
Background/Challenge

- Challenged to develop a quicker, more flexible and more cost effective visual inspection tool

- Previously used technology improvement potentials
  - Pressure limitations
  - Analogue technology
  - Pan-tilt-zoom
  - Recording technology
  - Contamination
  - Operation
Design

- Single bi-di pig design
- Bypass ports with flushing dome
- High Res. Wide Angle $360^0/185^0$
- Digital unwrapping and filtering
- External processing
- Online live web broadcast
- DNV / ATEX / Zone 1 approved
- Up to 3 km reach
Inspection views
Components

- «All in one» container
- Control panel
- Winch and cable
- Deployment frame
- Isolation valve with stuffing box
- Pig launcher and interface flange
In house training and competence
Field Example - Riser Inspection

Manifold

Subsea Isolation

Direction of travel when decommissioning
Conclusion

- Deployed while compressing gas saved 11 days of production downtime
- Significantly reduced complex subsea operations
- Clear pictures with “street view” possibilities

Customer:

“These are the clearest pictures I have seen of a riser end termination”